Roland
WE DESIGN THE FUTURE

ROLAND GUITAR SYNTHESIZER GR

VOL.1

Electronic Musical Instruments

"GR's idea of an electronic guitar is a guitar controller (G-series) plus a unit (GR-300, GR-100)"

Although called an electronic guitar, the guitar itself is merely a controller, as the guitar obviously does not have enough room for all the electronic devices. You can imagine the impracticality of having a guitar covered with switches and controls. Therefore, most of the so-called hardware is kept in a different form, which is what we call the unit (GR-300, GR-100). In other words, the sound produced by the unit is controlled by the guitar. This means that it has the firm foundations of a guitar in handling and performance, and at no time will the machine ever control the guitar player in any way.

"GR is the synthesizer for the guitarist"

Whether acoustic or electric, the guitar has a special performing feature that keyboard instruments do not have. The guitarist "plays on the strings whose sound is controlled by pressing them down with his fingers". Sounds produced in this manner have distinctive tone and pitch qualities of their own, which is the main reason why the guitar is so rich in its expressiveness.

GR lets you perform with all the electric guitar styles and effects such as bending, harmonics, and feedback, except only with "more effectiveness than the electric guitar". You don't need to acquire a special technique to operate the synthesizer. The dream of the guitarist to become a synthesizer player while remaining a guitarist has come true. GR has created an epoch-making instrument. Now, it's your turn to create an epoch-making sound.

"The guitar controller (G-series) is equipped with divided pickup, available in 4 models – humbucking type (3 models) and single-coil type (1 model)."

The guitar controller carries the basic functions of the electric guitar such as performance, power, and sustained sound, while it is equipped with divided pickup, which picks up the vibrations of each string separately, and electronically synthesizes it into a sound source.

To match the designs and sound characteristics of the guitar controller as a guitar, there are four models available: the humbucking type models, G-808, G-303, G-202, and the single-coil type model with tremolo, G-505.

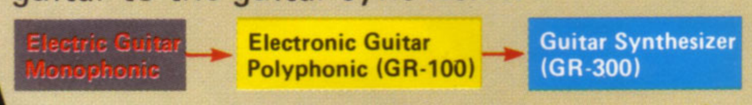
"The divided pickup, with one pickup for each string, has changed the concept."

The guitar is a polyphonic instrument, with the six strings each vibrating individually. However, with electricity, the sound of the six strings were all picked up together as a whole – in other words, only a monophonic sound could be obtained.

The divided pickup takes the polyphonic nature of the guitar and produces polyphonic sounds electronically. There is a pickup for each string, and the six pickups are mounted together as one unit between the bridge and the rear pickup. The sound source picked up by the divided pickup is processed through the HEXA Distortion and HEXA Filter circuits in the case of GR-100, and through the HEXA VCO in the case of GR-300.

"The creative unit processes the sound of the 6 strings picked up by the divided pickup into polyphonic sound."

The following diagram would be an illustration of the movement from the electric guitar to the guitar synthesizer:



In order to make the monophonic electric guitar polyphonic, the sound of the six strings are picked up individually by the divided pickup, and then processed electronically. Furthermore, the vivid way in which the electric guitar expresses itself does not get lost. This is the GR-100 electronic guitar.

As the polyphonic processing is conducted by putting each of the six sounds into six separate channels, you can have a wider range of various tone characters with more brilliancy, and a diverse combination of sounds.

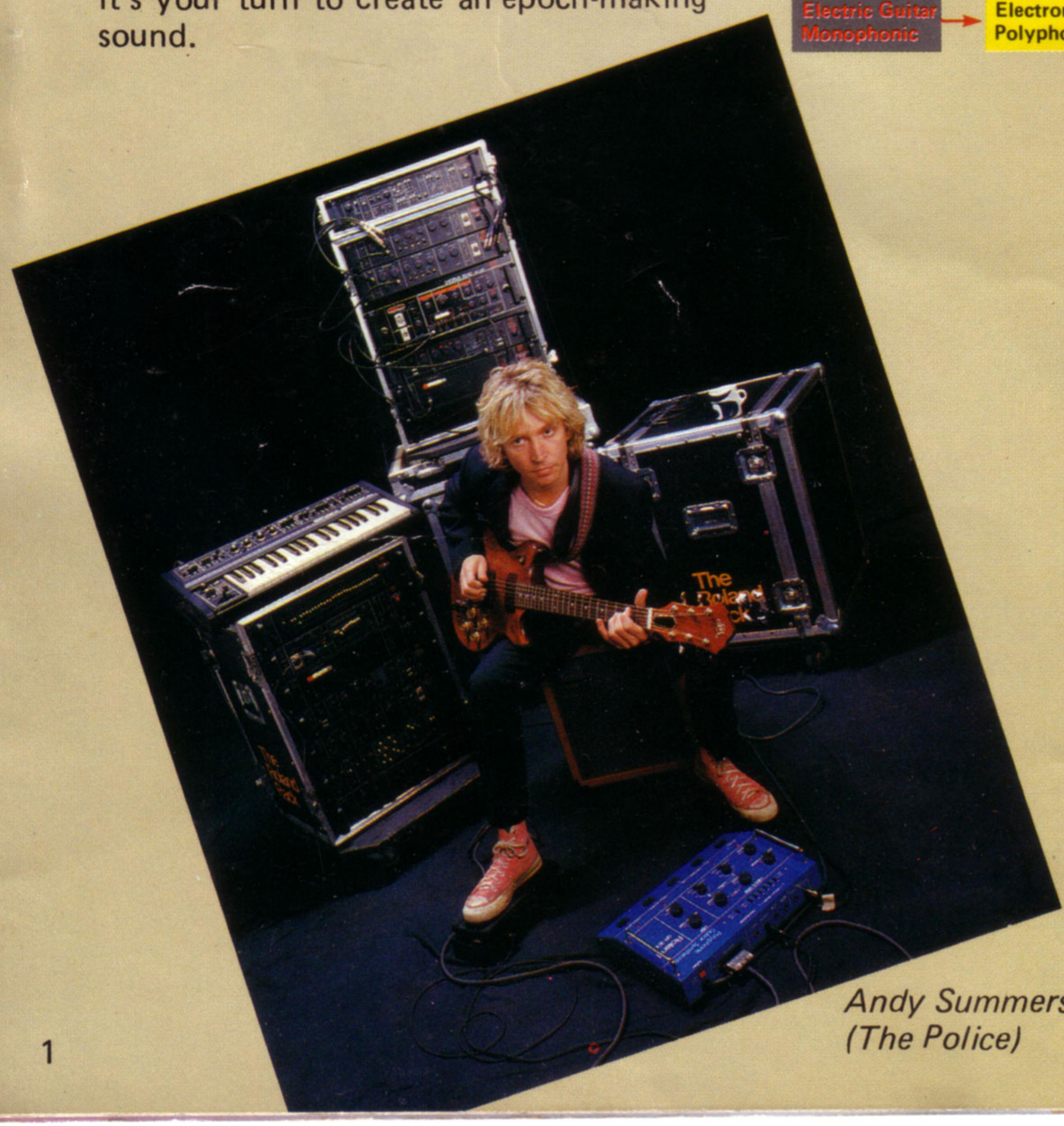
Compared to the GR-100 which uses the electronic guitar as its sound source, the GR-300 is a 6 VCO (Voltage Controlled Oscillator) polyphonic guitar synthesizer equipped with six VCO's which change the sound sources into voltage signals. You can consider it to be a unit which has gone one step ahead of the GR-100. The GR-300 is equipped with distinctive guitar synthesizer functions such as the Envelope Follower and the VCO Polyphonic Sweep, which help to convey the subtle differences in performance.

As you can see, the GR-100 and GR-300 did not emerge all of a sudden or by chance. Rather, it is just another step ahead in the same course of development the guitar has taken from acoustic guitar to electric guitar.

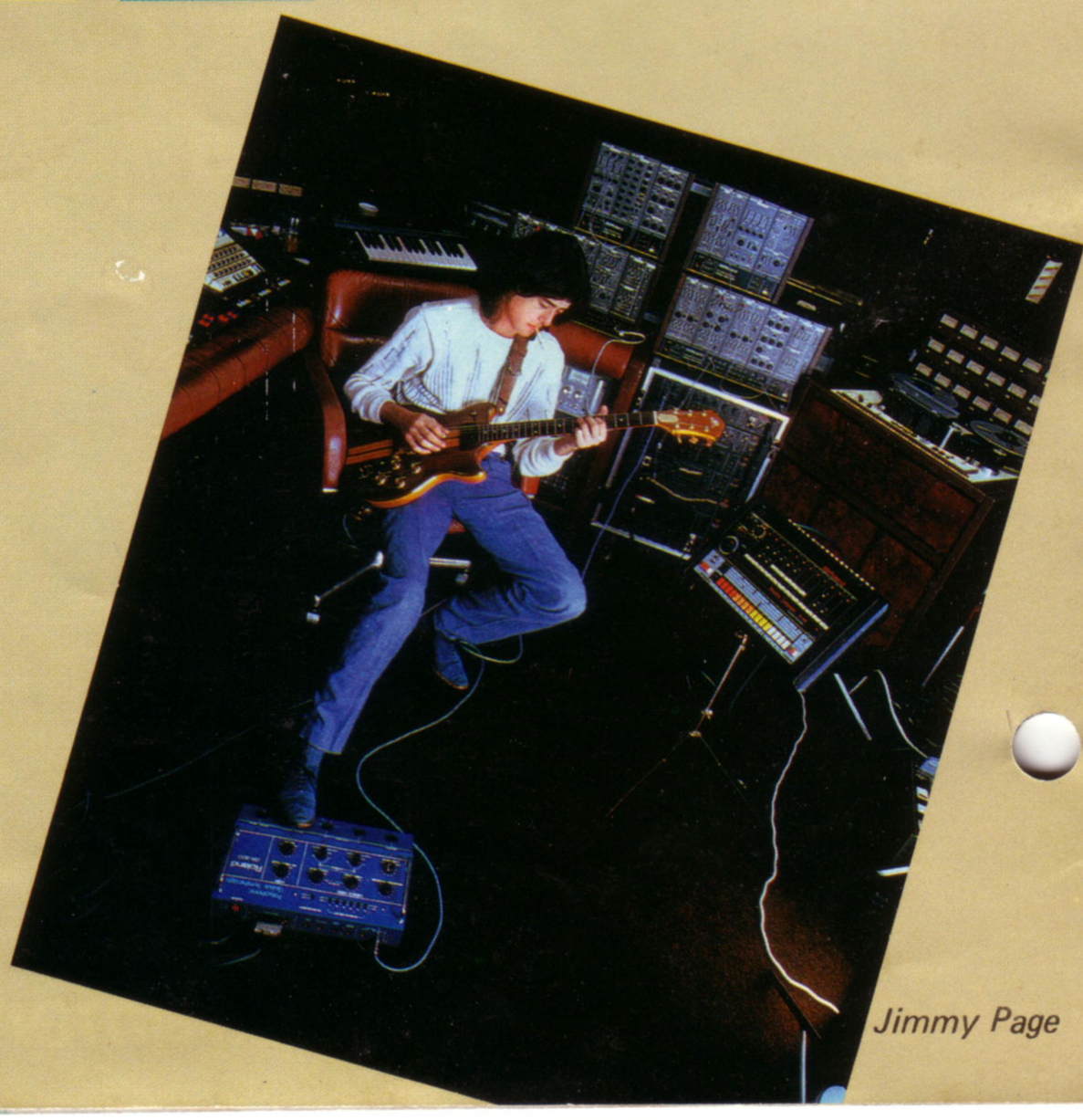
"Any combination of guitar controller (G-series) and unit is possible."

All models of the unit and the controller use a 24-pin connector so that any combination of a guitar controller and unit is possible.

With additional purchase of the Unit Selector US-2, two units can be driven by a single guitar controller.



Andy Summers (The Police)



Jimmy Page

GR GUITAR CONTROLLER

"The polyphonic guitar controller: newest mechanisms in a beautiful form"

Upon putting out the G-series guitar controllers, we went back to the very basics of "synthesizing by guitar" and went over each and every function involved in creating a sound. We then upgraded these functions as we designed the four types of series.

We aimed at being able to operate the wide-ranged functions as we pleased, and get outstanding performance. Fundamental aspects of the controller such as the functions and the layout of the circuit were made easy to handle and their quality highly upgraded. All four types have the same circuit layout with the body shape and sound characteristics to buy of your choice.

G-808

The highlight of the G-series, with excellent mixture of the newest technology and craftsmanship — this is a one-piece neck guitar controller with a beautifully handcarved walnut and ash body, and a neatly finished walnut top.

G-303

An orthodox guitar controller made of maple and mahogany, having the essence of G-808. In spite of the simple form, it has all the fundamental features such as quick response, outstanding total balance, and produces a tight and long sustained sound using the newly developed PU-114H.

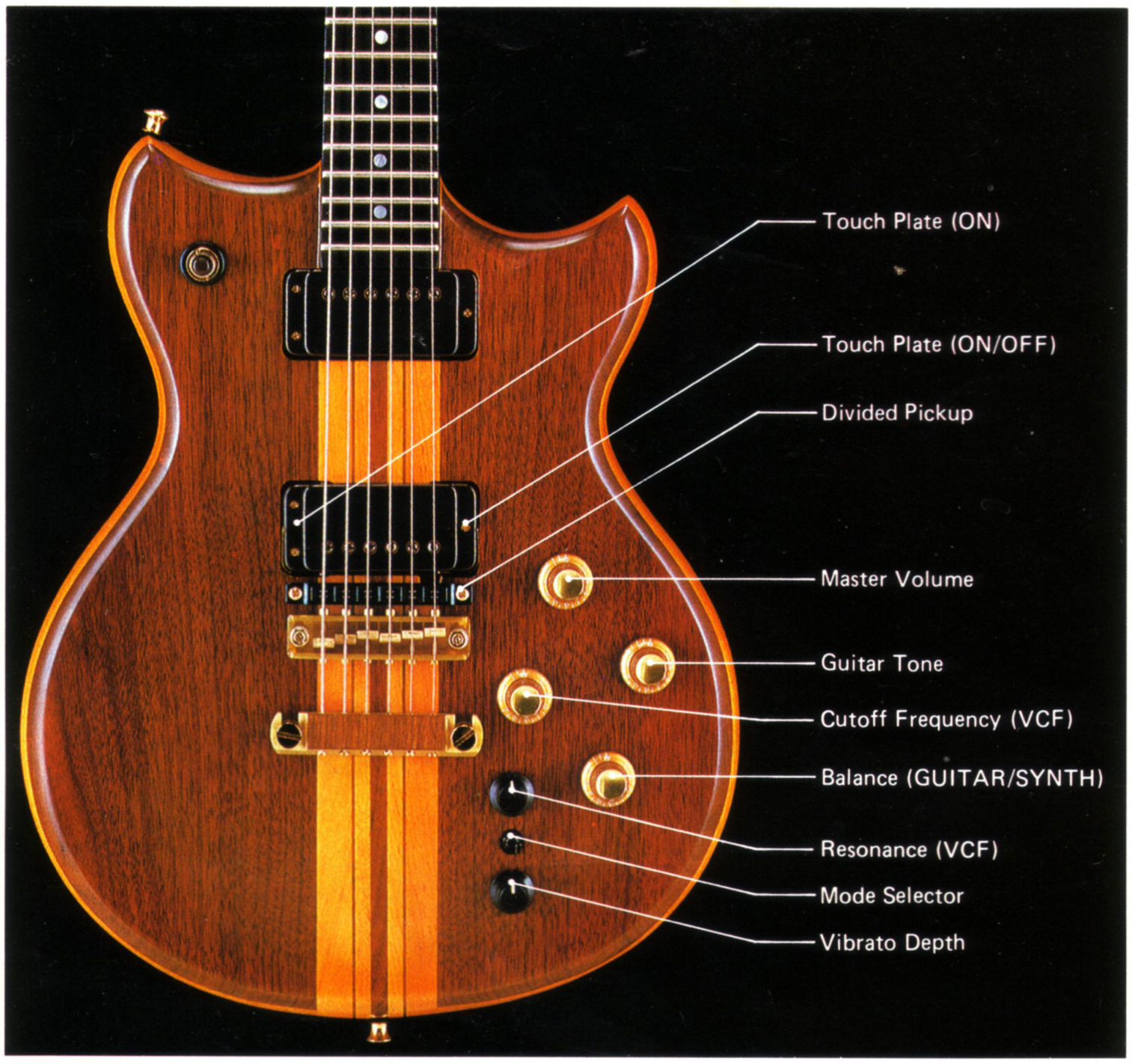
Jeff Baxter

G-505 Series

This is a revolutionary guitar, a new model capable of producing a guitar synthesizer sound with additional powerful arming effects. It enables you to enjoy various tone qualities using the three single-coil pickups and the 5-position selector.

G-202 Series

Adapting the G-505 style, it has a beautiful simple form and produces a rich, powerful, and a long sustained sound.



"Master volume control and guitar tone control"
The overall volume of the guitar synthesizer sound and the normal guitar sound are both controlled by the Master Volume control, whereas the tone quality of the normal guitar sound is controlled by the Guitar Tone control.

"VCF cutoff frequency control"
10 is the basic setting position for the VCF Cutoff Frequency control. As you turn the knob from 10 to 0, the higher frequencies gradually disappear, the tone color becomes softer, and the overall volume will seem to get lower. If you connect a foot volume pedal (FV-100) to the VCF Pedal jack on the rear panel of the guitar synthesizer unit, you will be able to control the frequencies and change the tone color with your foot.

"The mode selector to select the sound source of guitar synthesizer"
The Mode Selector works differently depending on the guitar synthesizer unit. In the case of GR-300, turn the switch to the 1 position, and the VCO synthesizer sound will be produced. At the 2 position, both the VCO synthesizer and distortion sounds will be produced, and at the 3 position, just the distortion sound will be produced. In the case of GR-100, 1 is for Electro Sustain, 2 is for Electro Sound, and 3 is for the normal guitar sound.

"Vibrato depth control"
The Vibrato Depth control is for controlling the depth of the electronic vibrato effects. Turn the knob clockwise, and you will get deeper vibrato effects.

"Touch plates (Vibrato effect)"
These touch plates are used for obtaining vibrato effects which only have their effects on the VCO synthesizer sounds. You will find these button-like switches located on the rear pickup of the G-808 and G-303, and on both sides of the rear pickup for the G-505 and G-202.
A continuous vibrato effect can be obtained by pressing touch plate A. To turn off the vibrato effect, press touch plate B.
When you want a temporary vibrato effect, just press touch plate B, and it will produce a vibrato effect as long as it is being touched.

"Balance control to determine mixture of guitar synthesizer and normal guitar sounds"
With the knob turned to the 10 position, the sound will be completely that of the guitar synthesizer, and at the 0 position, there will only be the sound of the normal guitar. So in order to get an equal mixture of the two sounds, you would set the knob at the 5 position, and so on.
However, if the Mode Selector is set at the Distortion position, the Balance control will not have an effect, and only the normal guitar sound will come out.

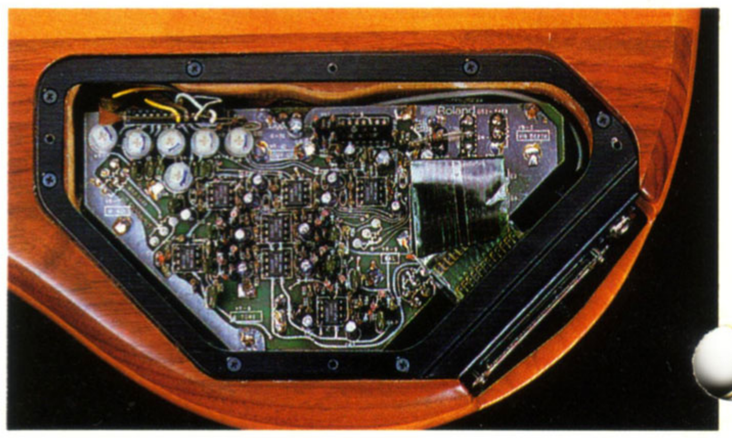
"Combined usage of resonance and cutoff frequency controls"
As the Resonance control is turned from 0 to 10, a certain frequency range will be emphasized and a distinctive tone color will be produced. In actual practice, it would be used in combination with the VCF Cutoff Frequency control. For example, set the Resonance control at 0, 5, and 10, and turn the Cutoff Frequency control from 0 to 10 at each level. When the Resonance control is at 0, a natural electronic sound is produced. When the Resonance control is at 5 and the Cutoff Frequency control is between 0 and 2, a woodwind-like tone color is produced. If the Cutoff Frequency control is raised to a higher level, the sound turns into a hard-rock lead guitar sound, and makes it easy to create picking harmonics.
When using feedback effect, an outstanding long sustained sound can be obtained by setting the volume of the amplifier at a rather high level, with the Resonance control set at 10, and the Cutoff Frequency control adjusted at the desired frequency cutoff point.

"Clear and brilliant sound obtained by using divided pickup"
Because the Divided pickup picks up the sound of the six strings individually, a clear and brilliant polyphonic sound can be obtained without losing the delicate tone characteristics of the six strings.

"Equipped with 24-pin connector and normal output Jack"
All G-series guitar controllers are equipped with a 24-pin connector and a normal output jack. The G-series have created multi-sound creating electronic guitars for the future.

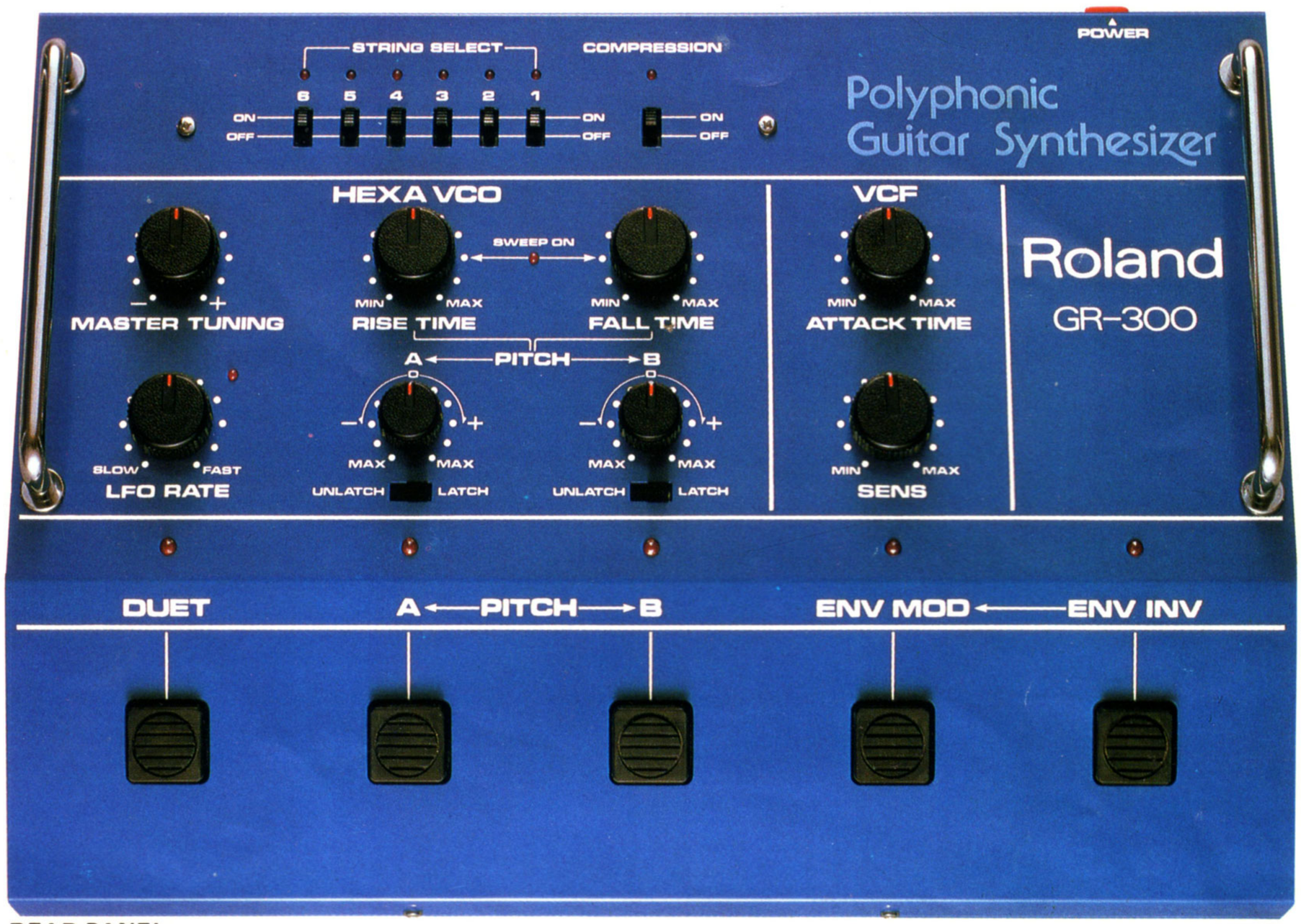
"Incredible humbicking pickups (PU-114H, PU-120-H) and brilliant single-coil pickup (PU-134S)"
An electronic guitar should be an outstanding electric guitar first. That is why the G-series are equipped with outstanding pickups such as PU-114H (G-808, G-303) which is a pickup characterized by its sweet, lustrous, and clear long-sustained sound, PU-120H, an open-cover pickup with a distinctive rich sound of a humbucking pickup (G-202), and PU-134S which is characterized by its good old brilliant tone, crisp high-range sounds, and warm mid-range sounds (G-505).

"Electronic sound with tremolo"
G-505 is equipped with a heavy-duty tremolo unit which enables you to manually give vibrato and arm-play effect on the electronic sound as you please.



"Circuits with abundant usage of the most-advanced electronic technology"
Main circuits are compactly structured using print wiring with stability and high reliance, assuring treatment of the signals from the pickup and filter-related control signals with high certainty.

GR-300 GUITAR SYNTHESIZER



REAR PANEL

"Driving the synthesizer is like playing the guitar"

GR-300 is a new type of polyphonic guitar synthesizer, different from an ordinary guitar synthesizer. It can be used to synthesize as easily as playing an ordinary electric guitar.

First of all, it has an outstanding expressing ability, being able to reproduce the subtleness of the guitar sound which cannot be obtained by a keyboard synthesizer.

Secondly, it is equipped with HEXA VCO and HEXA distortion circuits which means a clean distortion can be obtained, like GR-100.

Furthermore, it is equipped with advanced features such as Envelope Follower and polyphonic VCO Sweep. It is a compact guitar synthesizer especially suitable for live performance.

"HEXA VCO and string vibrations themselves duet by using pitch shift"

GR-300 is equipped with a PITCH SHIFT function capable of master tuning, which is tuning the pitch of the HEXA VCO inside the unit to the pitch of the string vibrations of the guitar controller.

You can also preset the pitch of the HEXA VCO (pitch A, pitch B) within a range of ±1300 cent and create a duet with the string vibrations of the same pitch.

It covers a range from one octave below to one octave above the original note, and by using it along with the duet sound, you can get octave sounds, 3rd and 5th harmonies, and other chorus effects.

"Rise time and fall time"

The Rise Time and Fall Time controls set on the HEXA VCO shifts the pitch when switching between Pitch A and Pitch B.

The portamento is 0 at minimum, and a longer portamento time can be obtained by turning the knob fowards maximum.

To get a bending effect, set the Rise Time and Fall Time at a high level. When gliding, set Pitch A (B) a half note away from the normal sound and change the switch to "unlatch".

"String selector"

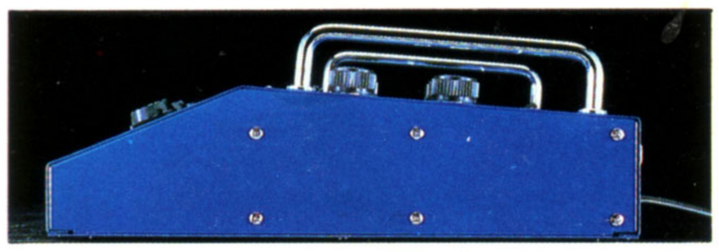
Numbers 1 to 6 on the panel refers to the six strings. Only the strings turned "ON" will produce a VCO sound. You can enjoy solo work by turning on the higher strings and emphasize the high tone qualities, or for bass work, turn on the lower strings. You can also enjoy mixing it with the guitar sound, using the Balance control on the guitar controller.

"HEXA distortion and compression"

As with GR-100, a clean distortion can be obtained by the HEXA Distortion circuit.

With GR-300, the Mode Selectors on the guitar controller are as follows: Top – Distortion, Center – VCO sound and Distortion, Bottom – VCO sound.

Also, with the Compression switch turned on, even when you're not picking, a sound will be produced when the string touches the fret.



SPECIFICATIONS

• **HEXA VCO:** Master Tuning, Pitch A (±1300 cent), Pitch B (±1300 cent), Pitch LATCH/UNLATCH Switch x 2, Sweep Rise Time (0–6 sec), Sweep Fall Time (0–6 sec), LFO Rate (2–10Hz) • **VCF:** Attack Time (0–2 sec), ENV MOD SENS, ENV MOD Switch (⌞, ⌜) • **VCA:** Compression Switch (Long Sustain) • **String Select:** 1–6 Selec Switch • **EXT Foot Controls:** String Select Switch, VCO Sweep ON/OFF, VCF Pedal, Compression Switch • **Input:** 24-PIN Connector • **Output:** Mix/Synth., Guitar • **Dimensions:** 400(W) x 100(H) x 290(D)mm (15.7" x 3.9" x 11.4") • **Weight:** 5kg (11 lbs.)

GR-100 ELECTRONIC GUITAR UNIT

The guitar is a polyphonic instrument with the six strings vibrating independently. However, because the pickup, which picks up the vibrations of the strings, and various sound devices which add flavor to the sound have been monophonic, the electric guitar could not express the delicate sound qualities of the strings.

GR has devoloped the Divided Pickup which picks up the vibration of the strings individually, and has established a system to electronically process sounds, with the string vibrations themselves being the sound source. This is the electronic guitar GR-100.

"HEXA distortion circuit makes it possible to get clean distortion which could not be experienced by electric guitar"

GR-100 is equipped with the HEXA Distortion circuit which can distort the string vibrations that are divided into six sound sources by the Divided Pickup.

The sound distorted by the HEXA Distortion is clean, deep, and powerful, with a rich sustained sound and beautiful harmony (even with 9th and 11th chords) which could not be obtained by a regular distortion or over-drive device.

"HEXA Filter, cutoff frequency, and resonance for powerful filtering effects"

Each sound source from the string passes through the HEXA Filter circuit of the GR-100 as well as the HEXA Distortion.

HEXA Filter is preadjusted in accordance with the guitar tuning (E, B, D, A, G), low for the lower notes and high for the higher notes. Therefore, unlike using the graphic equalizer or the parametric equalizer, it is possible to balance the string sounds and create a versatile selection of sounds, from soft to hard, using the Cutoff Frequency and Resonance.

"No requirements to get feedback with GR-100 – The HEXA Filter will do it for you"

The sound of the electric guitar is determined by various physical factors which cannot be judged by eyes and ears alone, such as the quality of the material used for the neck and the body, nature of the pickup, the shape of the frets, and the tension of the strings.

We have struggled greatly in search to get what we want. Just to get feedback, we have had a hard time trying to locate the common vibration point, and even after being able to get feadback, we have run into problems such as finding there is only one feedback point, or that different guitars have different feedback points.

The HEXA Filter of GR-100 not only changes the tone color, but also lets you change the common vibration point and freely select feedback points by controlling the Cutoff Frequency and Resonance so that you can change the nature and character of the sound as you please.

"How about experiencing the electronic WAH-WAH?"

GR-100 is equipped with three effect controls, and one of them is the Filter Modulation. It enables you to add a "wow" effect onto the electronic sounds regardless of Cutoff Frequency or Resonance, and controls the picking power (stress) with the SENS control and the depth of the "wow" effect with the PEAK control.

Furthermore, by using the Inverter switch you can reverse the operation and tone color of the "wow" effect.

"One-touch electronic vibrato and stereo chorus"

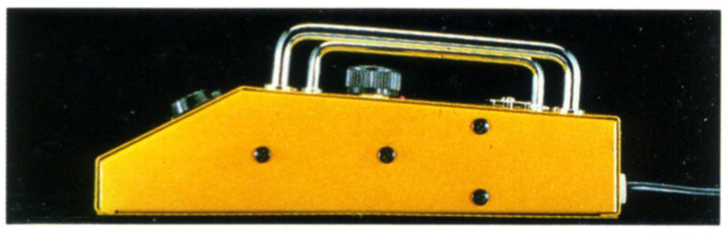
The second effect control on the GR-100 is Vibrato. By turning the Touch Vibrato switch ON and OFF, a powerful vibrato effect quite different from a manual vibrato can be obtained.

The third effect control is Stereo Chorus which deepens and broadens the sound.

"Direct line-out recording without losing true nature of guitar sound"

As the electric guitar amplifiers are made for electric guitars, they are designed to raise and emphasize the higher range, resulting in a thin sound when recorded directly out from line.

GR-100 has a wide range and shows outstanding performance without losing the true nature of the guitar sound, making it suitable even for studio work.



SPECIFICATIONS

• **Filter Modulation:** Peak, Sens • **Vibrato:** Rate (0.7–8Hz) • **Chorus:** SENS • **Foot Switch:** Filter MOD (ON/OFF), Filter MOD INV (ON/OFF), Chorus (ON/OFF) • **Input:** 24-PIN Connector • **Output:** Guitar, Mix, Chorus • **Remote:** VCF Pedal (FV-100) • **Dimensions:** 300(W) x 93(H) x 250(D)mm (11.8" x 3.6" x 9.8") • **Weight:** 3.1kg (6.8 lbs.)

GR BASS GUITAR CONTROLLER

"Bass synthesizer which has combined advanced technology with the perfect electric bass guitar"

The bass controller, which is the main operator of the GR bass synthesizer system, is equipped with all the functions and sounds of an electric bass, with one pickup and 2-Band equalizer. (G-88, G-33)

G-88

One-piece neck model made of maple and mahogany, enabling an ideal transmission of the string vibration to the body, with the music-oriented features of the solid bass combined with advanced technology. It is equipped with a 2-band equalizer and shows high live performance capability.

G-33

Rich low range sound can be obtained from this orthodox maple neck and ash body bass guitar.
With smooth performance and powerful impact, this is a high quality bass equipped with a 2-Band equalizer.

"Layout of the controller with focus on operation"
Same layout for both G-88 and G-33. Concentrated on the efficiency of operation and has a well balanced form for live performance.

"Master volume"
Master Volume control is for controlling the general sound volume.

"Bass/Treble control"
An active type of a tone controller with BASS control for the lower range and TREBLE control for the higher range.

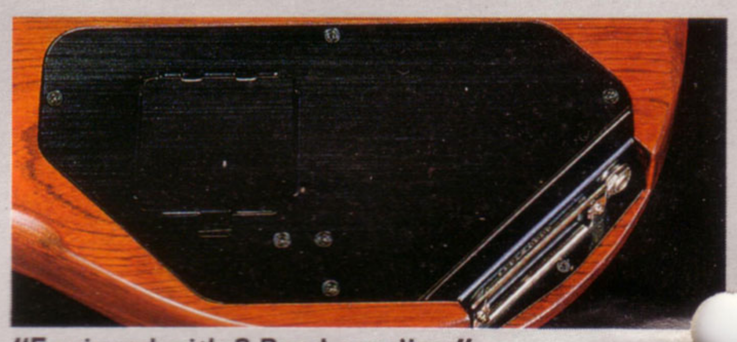
"Balance control"
Controls the balance of the synthesizer and normal bass sound. To get synthesizer sound, turn the knob to 10, and to 0 for normal bass sound.

"VCF cutoff frequency and resonance"
Tone control for the synthesizer sound. You can get softer sound by turning the FREQUENCY control to the left, and the volume will also decrease. Turn the Resonance control to the right, and the tone color of the frequency range set by the FREQUENCY control will change.

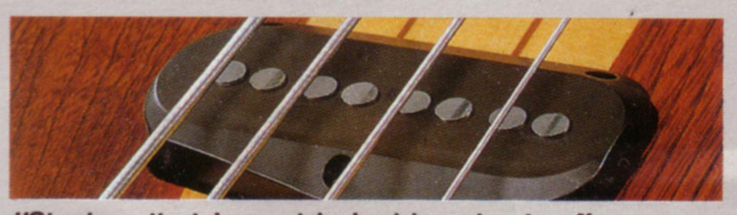
"Touch plate A, B"
Switching device for vibrato effect, only for VCO sounds. Another part of the human body must be touching the metal part of the G-88, G-33, or GR-33B in order for the touch plate to operate.

"Mode selector"
Selects the sound source of the bass synthesizer. There are three positions from the top; VCO, DUET, and normal bass. The Balance control will not operate when this selector is set at normal bass position.

"Quad-divided pickup"
With one pickup for each one of the four strings, the Quad-Divided pickup is the main section of a polyphonic guitar synthesizer developed by high technology.



"Equipped with 2-Band equalizer"
So that it can be used as an electric bass, this bass controller is equipped with an active 2-Band equalizer, and operates with two 006P batteries.



"Single-coil pickup with double-pole piece"
A double-pole piece pickup with two magnets for each string, developed exclusively for G-88 and G-33.
With solid, stable low ranged sound and extraordinary sound volume, this is a pickup with improved features for live performance.

GR-33B BASS GUITAR SYNTHESIZER

REAR PANEL

This is an incredible 4-voice polyphonic synthesizer unit, much like the GR-300. you can use it as easily as playing a regular electric bass and get a versatile selection of tones.

It enables you to reproduce the subtle vibrations and other qualities of the bass guitar which a keyboard synthesizer could not do, and such features as VCF, VCA, two Envelope Generator lines and LFO, let you create sounds which couldn't be produced by anything else.

"Having a BASS sound duet"

By adding VCO pitch sounds set at pitch A and pitch B, you can get a rich one-note, 2 VCO-like duet sound.

"2-line envelope generator"

The 2-line Envelope Generator set on the unit controls both the VCF and VCA, VCF is for tone quality, and VCA is for sound volume, with the VCF turned on, a "wow" effect will occur at every picking, and with the VCA turned on, you can get a varied time difference of the volume.

You can also preset each line of the Envelope Generator at different positions.

"Electronic vibrato effect"

GR-33B is characterized by the electronic vibrato at the LFO section of the RATE and DELAY, although of course, you can get hand vibrato by fingering as well. Press touch plate A for vibrato effect, and touch plate B for turning off the effect, or just to get temporary vibrato effect.

"Master tuning"

Tunes the pitch of the QUAD VCO to the pitch of the strings.

"String selector"

Only the strings turned "ON" will produce a VCO sound. You can use it in various ways, such as using the VCO sound for the No. 1 and 2 strings, and using normal sounds for the other two.

"Pitch A and pitch B"

You can tune the pitch of the QUAD VCO sound within a range of ±1300 Cent. Use the foot switch to switch between pitch A and B.

"Latch/unlatch switch"

Every time you step on the Pitch A, B foot switch, it will go on and off (LATCH), or you can have it to be ON as long as you're stepping on it (UNLATCH).

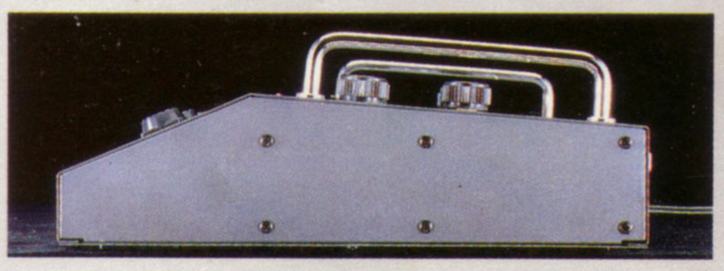
"LFO rate, LFO delay"

RATE determines the speed of vibrato and DELAY determines the time required for Delay vibrato effect to take place.

"VCF filter mode and envelope modulation".

This Filter Mode switch is to vary the qualities of the filter. At "A" (–24dB), the sound is sharp, and is effective when using VCF modulation. At "B" (–12dB), it will produce a bright sound.

The depth of the "wow" effect caused by the ENVELOPE MODULATION is controlled by the ENVELOPE MOD control.



SPECIFICATIONS

• **VCO (4-VCO):** Master Tune: Pitch A (±1300 cent), Pitch B (±1300 cent), Pitch LATCH/UNLATCH Switch (2), LFO: LFO Rate (2 to 10Hz), LFO Delay (0 to 4 sec) • **VCF:** Filter Mode A (–24dB/oct.), Filter Mode B (–12dB/oct.), ENV Modulation • **ENV GEN:** A Block: Attack Time (0 to 3 sec), Decay Time (0 to 10 sec), B Block: Attack Time (0 to 3 sec), Decay Time (0 to 10 sec) • **Foot Switch:** Pitch A, Pitch B, VCF MOD, ENV A/B, VCA MOD • **String Select:** String Select Switch (4), Indicator (4) • **Ext. Foot Control:** VCF Pedal, String Select • **Input:** 24-PIN Connector • **Output:** Mix/Synth., Guitar • **Dimensions:** 400(W) x 100(H) x 290(D) (15.7" x 3.9" x 11.4") • **Weight:** 5kg (11 lbs.)

SPECIFICATIONS

	G-202	G-303	G-505	G-808	G-33	G-88
Body	Ash	Maple + Mahogany	Ash	Ash + Walnut	Ash	Ash + Walnut
Neck	Maple One Piece	Maple	Maple One Piece	Maple + Mahogany	Maple	Maple + Walnut
Finger Board	—	Rosewood	Rosewood	Select Ebony	Rosewood	Select Ebony
Set Type	Detouchable	Set Neck	Detouchable	Thru Neck	Set Neck	Thru Neck
Peg	PG-111N	PG-102N	PG-112C	PG-103G	PG-122N	PG-123G
Pickup	PU-120H x 2	PU-114H x 2	PU-134S x 3	PU-114H x 2	PU-144S x 1	PU-144S x 1
Color	White/Red/Blue	Robert Brown	Sunburst/Metallic Red/Metallic Blue	Natural	Robert Brown	Natural
CONTROLS						
Divided Pickup	○	○	○	○	○	○
Master Volume	○	○	○	○	○	○
Guitar Tone	○	○	○	○	Treble, Bass	Treble, Bass
Pickup Selector	3 Position	Toggle Switch	5 Position	Toggle Switch	—	—
Balance	○	○	○	○	○	○
VCF Cutoff	○	○	○	○	○	○
Resonance	○	○	○	○	○	○
Mode Selector	○	○	○	○	○	○
Vibrato Depth	○	○	○	○	○	○
Touch Plate	○	○	○	○	○	○

OPTIONS

Unit Selector
US-2

The **US-2** Unit Selector is a device used to connect two Modules to one Electronic Guitar or Bass. This allows the guitarist or bassist the ability to channel his instrument through either of the two Modules or both of them simultaneously. /The US-2 can be used for such combination as a GR-100 and a GR-300, two GR-300s, two GR-33Bs, as well as connecting other Modules Roland will introduce in the future.

SPECIFICATIONS
• **Control:** Foot Switch A, Foot Switch B • **Led:** Channel A ON/OFF, Channel B ON/OFF • **Jack:** IN (24-PIN Connector, for Guitar), OUT (24-PIN) Connector x 2, for Unit) • **Dimensions:** 200(W) x 70(H) x 120(D)mm (7.9" x 2.8" x 4.7") • **Weight:** 1kg (2.2 lbs.)

Foot Switch
FS-1

Foot Switch
FS-2

Foot Switch
FS-3

FS-1, FS-2, FS-3 Foot switches /The three FS foot switches are used for remote control over certain GR Module functions. The FS-1 is a single foot switch. The FS-2 is a double foot switch and the FS-3 is a triple footswitch. /Both the GR-33B and GR300 allow the connection of foot switches. The single foot switch (FS-1) connection to the GR-33B remote controls the String Select function. The GR-300 can take any of the three foot switches to remote control up to three different functions: Compression, Pitch Selection or String Selection.

Connection Cord
C-24D

C-24D Connection Cord/All of the GR Systems products use the same 24 Pin connection cord. The C-24D comes as standard equipent with every GR Module. It is also available as an accessory in case of loss or damage. The C-24D is 24 feet in length and uses locking mechanisms at either end to prevent the cord from detaching from the guitar or the Module.

Volume Pedal
FV-100

• Specifications and appearance subject to change without notice.

GR
Guitar Synthesizer

Roland

Printed in Japan RAM-102 '82 Jan. B-4 AVS